

Milwaukee County COVID-19 vaccine data summary

Milwaukee County COVID-19 Epidemiology Intel Team

This report was updated on November 23, 2021 and includes data through November 22, 2021. Note that data for recent weeks may be under-reported due to lags in data entry. This report currently includes data on primary vaccinations only. Dose totals do not include any booster doses received beyond the first dose of the Johnson & Johnson vaccine or the second dose of the Pfizer and Moderna vaccine series.

Milwaukee County COVID-19 Vaccination Totals December 15, 2020 - November 22, 2021			
	Milwaukee County	City of Milwaukee	Suburbs
Total vaccine doses administered	1,049,694	590,759	458,935
Pfizer	658,806	391,057	267,749
Pfizer Age 5-11	10,920	3,967	6,953
Moderna	346,800	175,938	170,862
Johnson & Johnson	33,168	19,797	13,371
*Total individuals with one or more doses	564,936	319,546	245,390
Pfizer	341,947	204,457	137,490
Pfizer Age 5-11	10,919	3,967	6,952
Moderna	178,902	91,325	87,577
Johnson & Johnson	33,168	19,797	13,371
*Total individuals completely vaccinated	517,926	291,010	226,916
Pfizer	316,783	186,539	130,244
Pfizer Age 5-11	0	0	0
Moderna	167,975	84,674	83,301
Johnson & Johnson	33,168	19,797	13,371
*Individuals are grouped by the first vaccine product received. Note a small number of people received a different vaccine product for their second dose in a series			

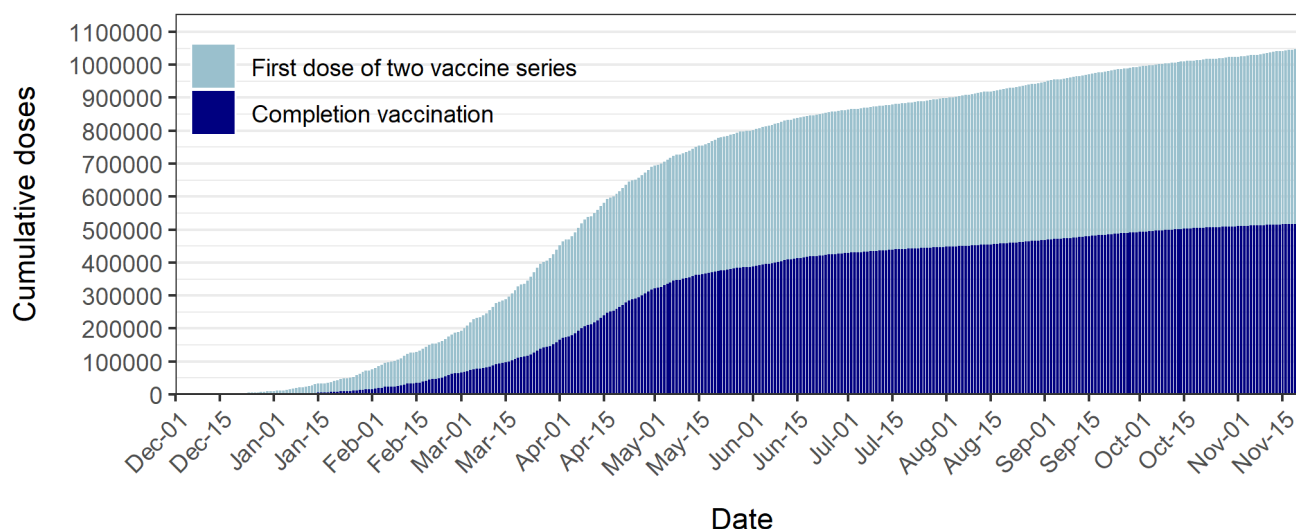
**Percentage of Population Vaccinated
December 15, 2020 - November 22, 2021**

	Overall	Ages 5+	Ages 12+	Ages 16+
Milwaukee County				
*Population	954,209	887,487	796,322	747,409
Received one or more doses	59.2%	63.7%	69.6%	70.6%
Completely vaccinated	54.3%	58.4%	65.0%	66.1%
City of Milwaukee				
*Population	596,886	551,401	489,445	456,809
Received one or more doses	53.5%	58.0%	64.5%	65.9%
Completely vaccinated	48.8%	52.8%	59.5%	60.9%
Milwaukee County Suburbs				
*Population	357,323	336,086	306,877	290,600
Received one or more doses	68.7%	73.0%	77.7%	78.1%
Completely vaccinated	63.5%	67.5%	73.9%	74.4%
*Population estimates from 2018 US Census American Community Survey				

Cumulative and daily COVID-19 doses administered to Milwaukee County residents

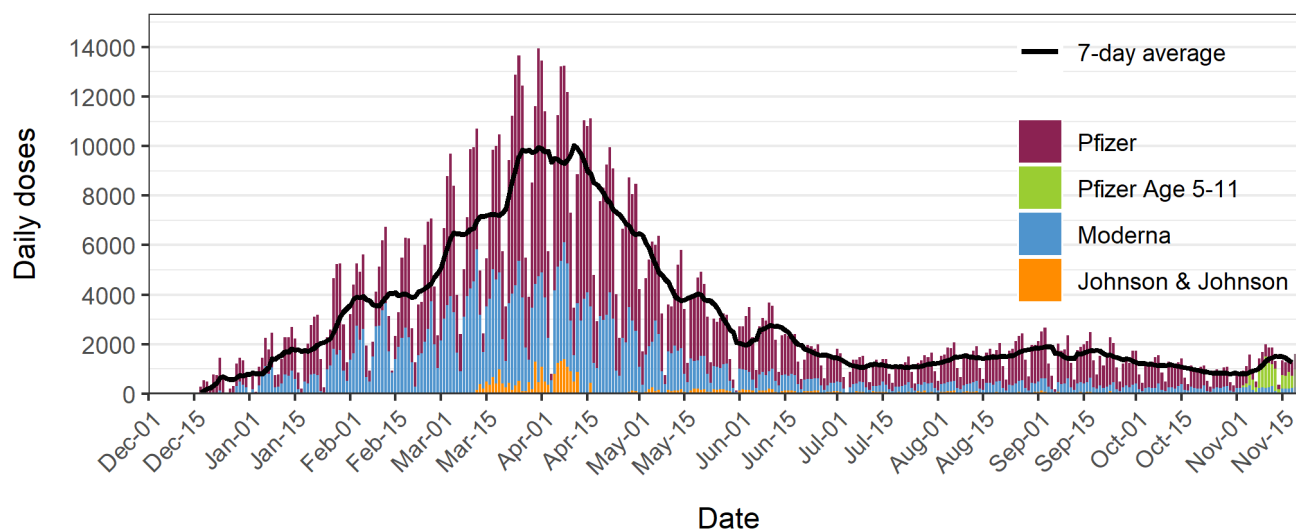
Figure 1 shows cumulative COVID-19 vaccine doses administered to Milwaukee County residents. A total of 1,049,694 doses have been administered from December 15, 2020 through November 22, 2021. The light blue color represents the first dose in a series (Pfizer or Moderna). The dark blue color indicates a completion dose (first dose of Johnson & Johnson or second dose of Pfizer or Moderna). **Figure 2** shows daily COVID-19 vaccine doses administered to Milwaukee County residents. The overlaid black line shows the 7-day average of daily doses and the bars are colored by vaccine: Pfizer (red), Pfizer Age 5-11 (green), Moderna (blue), and Johnson & Johnson (orange). Daily doses peaked in late March to early April 2021 and have since declined until mid-summer when slight increases occurred in tandem with increasing cases thought to be driven by the delta variant. An increase driven by new eligibility among ages 5-11 is observed in the second week of November 2021.

Figure 1: Cumulative COVID-19 vaccine doses administered to Milwaukee Co. residents



Data source: Wisconsin Immunization Registry (WIR)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Figure 2: Daily COVID-19 vaccine doses administered to Milwaukee Co. residents

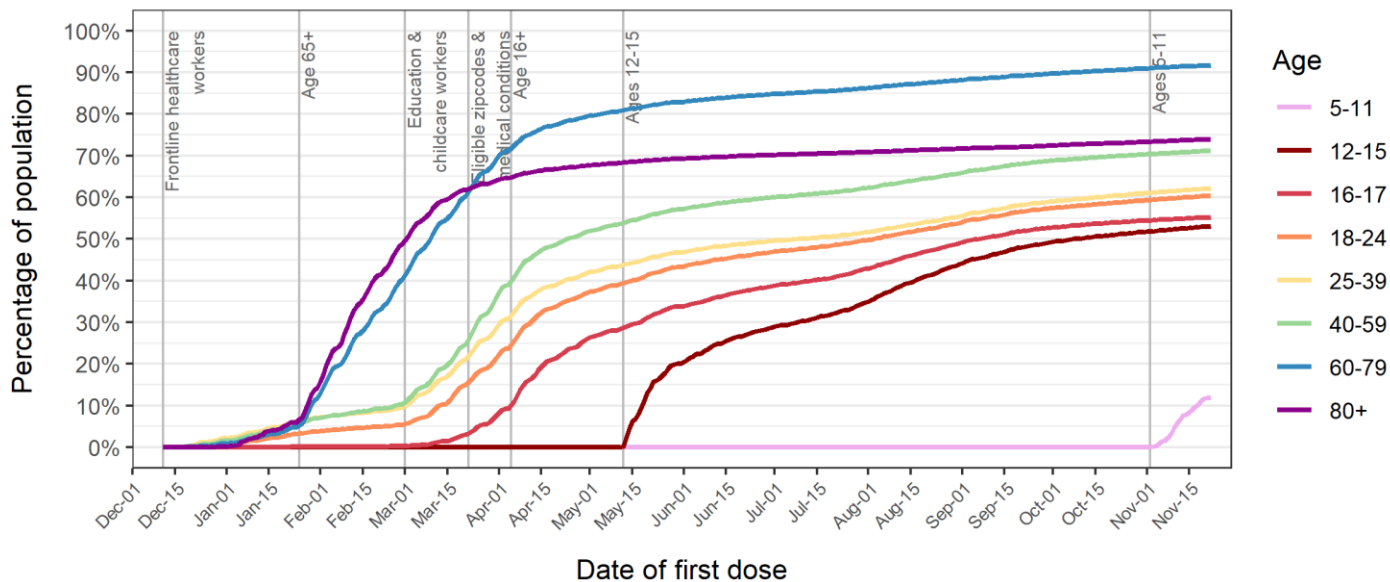


Data source: Wisconsin Immunization Registry (WIR)
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Percentages of Milwaukee County residents partially and completely vaccinated by age group

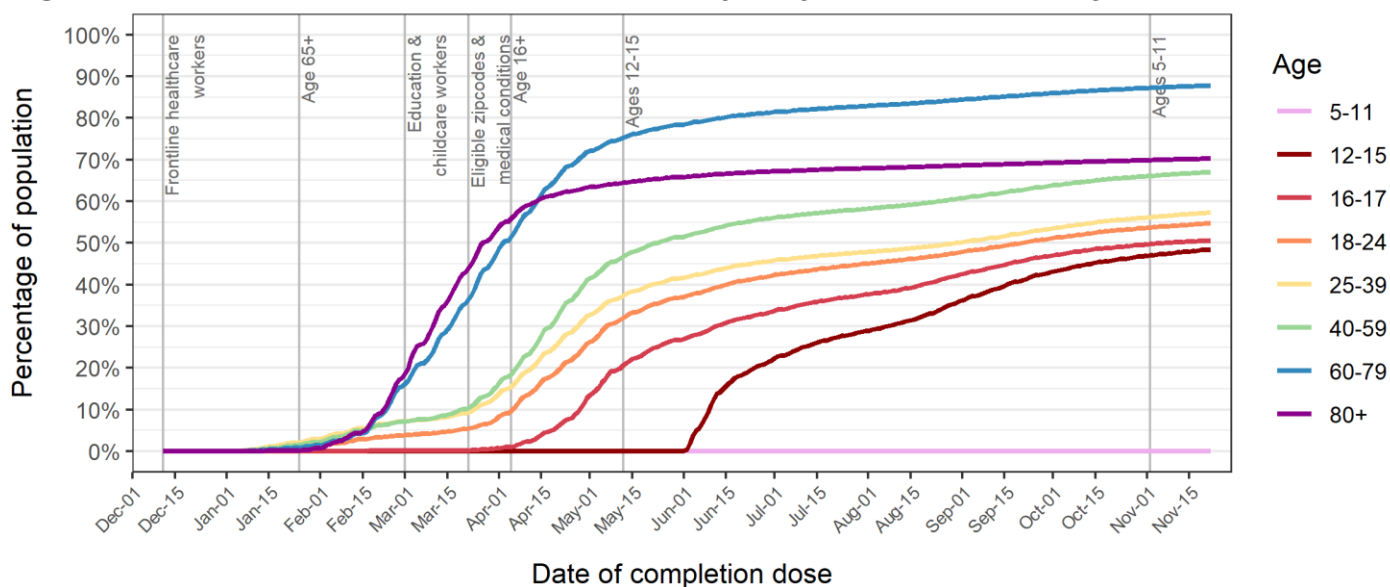
Figure 3 shows the percentage over time of Milwaukee County residents who received at least one dose of any COVID-19 vaccine by age group. **Figure 4** shows the percentage over time of Milwaukee County residents who are completely vaccinated with any COVID-19 vaccine by age group. The vertical lines show changes in vaccine eligibility in Milwaukee County.

Figure 3: Percent of Milwaukee Co. residents with at least one dose of any COVID-19 vaccine



Data source: Wisconsin Immunization Registry (WIR)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Figure 4: Percent of Milwaukee Co. residents completely vaccinated with any COVID-19 vaccine

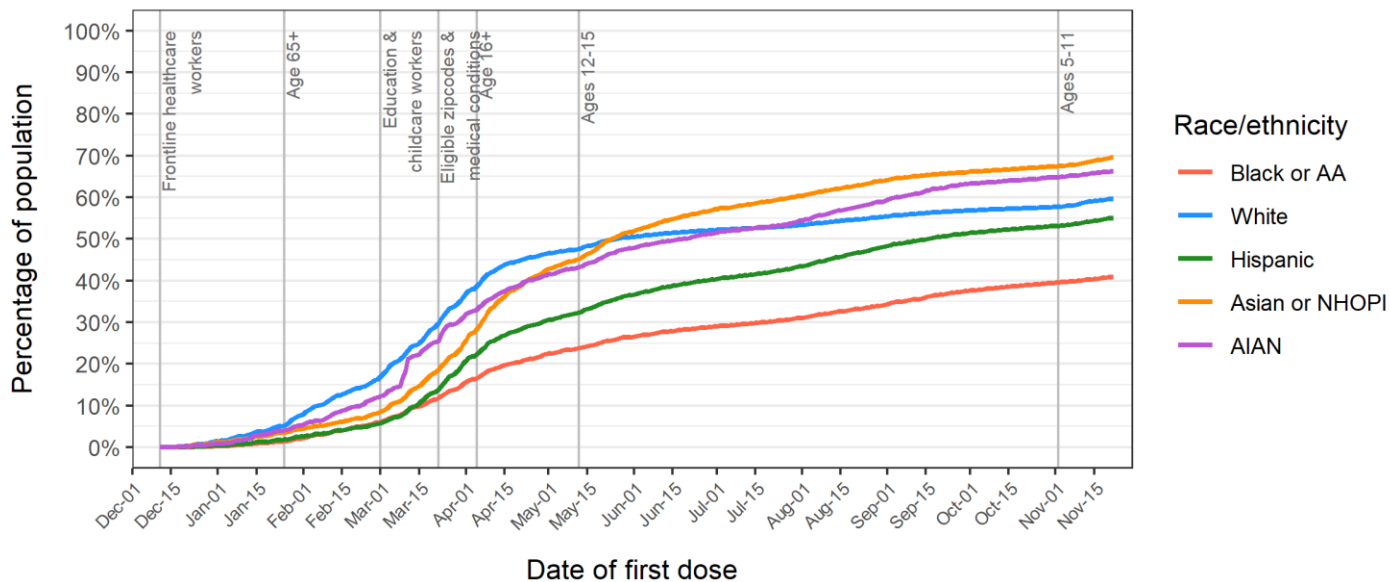


Data source: Wisconsin Immunization Registry (WIR)
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Proportions of Milwaukee County residents partially and completely vaccinated by race/ethnicity group

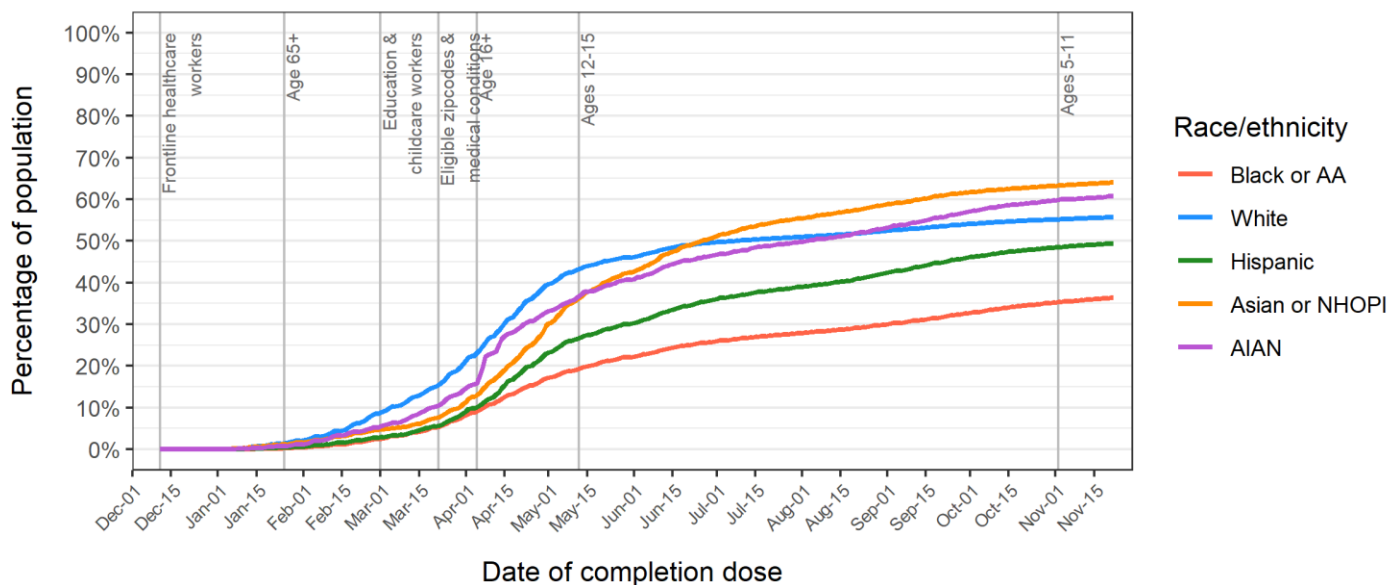
Figure 5 shows the percentage over time of Milwaukee County residents who received at least one dose of any COVID-19 vaccine by race/ethnicity group. **Figure 6** shows the percentage over time of Milwaukee County residents who are completely vaccinated with any COVID-19 vaccine by race/ethnicity group. The vertical lines show changes in vaccine eligibility in Milwaukee County.

Figure 5: Percent of Milwaukee Co. residents with at least one dose of any COVID-19 vaccine



Data source: Wisconsin Immunization Registry (WIR)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Figure 6: Percent of Milwaukee Co. residents completely vaccinated with any COVID-19 vaccine



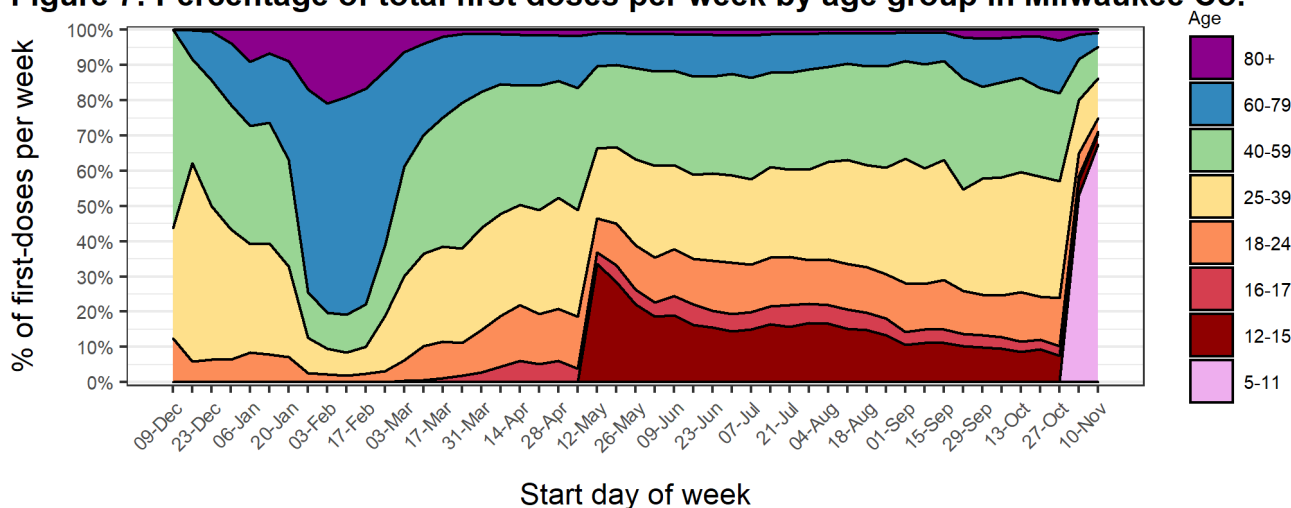
Data source: Wisconsin Immunization Registry (WIR)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Percentages of first-doses of COVID-19 vaccine administered to Milwaukee County residents by age and race/ethnicity groups

Figure 7 shows the percentage of first-doses of COVID-19 vaccine administered per week to Milwaukee County residents by age group. After vaccines first became available to healthcare personnel, middle-aged groups (25-59) were the majority of new vaccinees. After eligibility opened up to ages 65+, the oldest two age groups became the majority. The younger age groups (< 60) became the majority of people newly vaccinated since eligibility opened up to education staff on March 1st. With the eligibility of children aged 12+, we observed a sharp increase in vaccination for children. A similar increase was observed with the new eligibility of children ages 5-11.

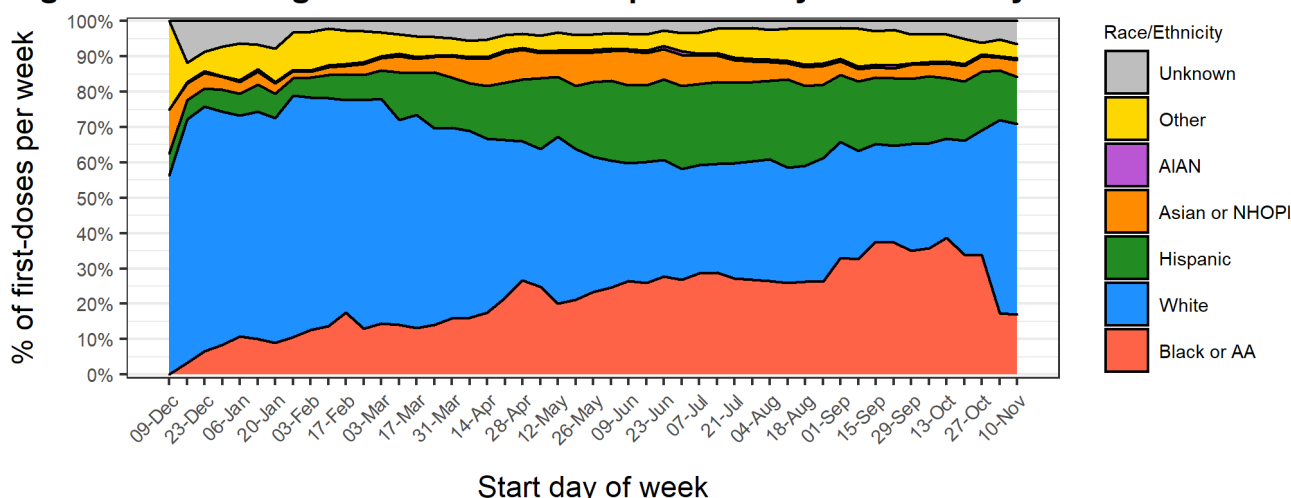
Figure 8 shows the percentage of first-doses of COVID-19 vaccine administered per week to Milwaukee County residents by race/ethnicity. Non-Hispanic Whites were the majority of newly vaccinated individuals for many months, however Black/AA and Hispanic groups have become an increasing proportion of the newly vaccinated over time.

Figure 7: Percentage of total first doses per week by age group in Milwaukee Co.



Data source: Wisconsin Immunization Registry (WIR)
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Figure 8: Percentage of total first doses per week by race/ethnicity in Milwaukee Co.



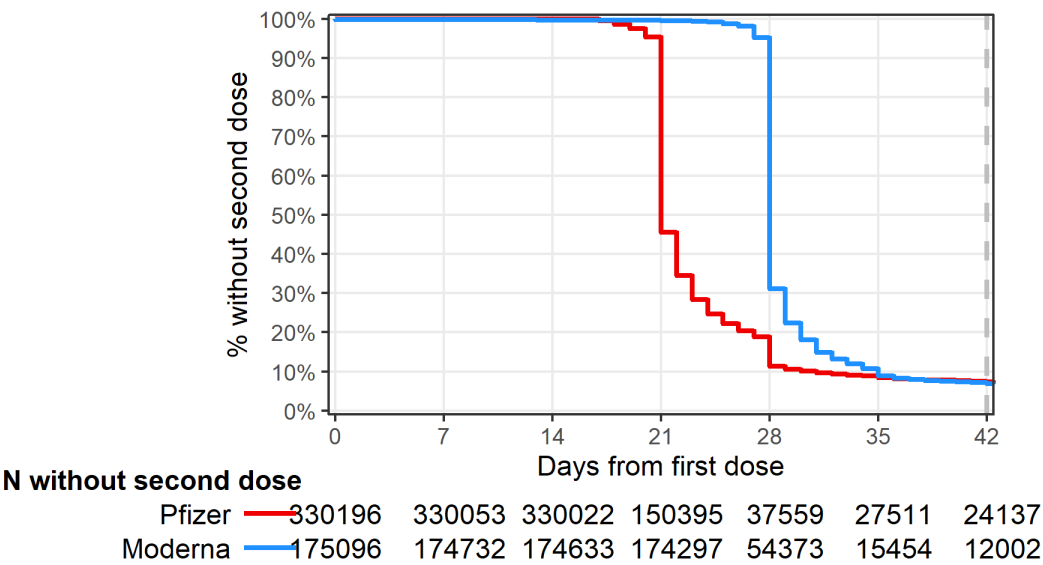
Data source: Wisconsin Immunization Registry (WIR)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Completion of immunization series among Milwaukee County residents who received at least one dose of Pfizer or Moderna vaccines

Figure 9 describes the timing between doses for Milwaukee County residents who received Pfizer or Moderna vaccines. This graph includes data for residents who received their first dose of Pfizer or Moderna at least 42 days ago (prior to October 10, 2021). The recommended interval for receiving the second dose is 21 days for the Pfizer vaccine and 28 days for the Moderna vaccine; the second dose is considered valid if administered 4 days prior to the recommended interval and up to 42 days following the first dose for each vaccine.

Fully 92.8% of all residents who received their first dose of Pfizer prior to October 10, 2021 received their second dose within 42 days, indicating very strong completion within guidelines for those receiving a first dose.

Figure 9: Vaccine series completion among Milwaukee Co. residents receiving Pfizer or Moderna



Data source: Wisconsin Immunization Registry (WIR)
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Summary of vaccine series completion rates for Milwaukee County Pfizer and Moderna recipients

Table 1 summarizes the rates of vaccination series completion (Pfizer and Moderna 2-dose series) by groups based on vaccine received, age, sex, and race/ethnicity. This table includes data for residents who received their first dose of Pfizer or Moderna at least 42 days ago (prior to October 10, 2021); 42 days is the maximum recommended period for receiving the second dose. Variation across groups exists, but is relatively minor, with the exception of a small group with unknown sex.

Table 1: Summary of vaccine series completion rates for Milwaukee County Pfizer and Moderna recipients

Characteristic	Percent with second dose within 42 days ¹
Vaccine received	
Pfizer	306,036 / 330,163 (92.7%)
Moderna	163,094 / 175,096 (93.1%)
Age	
12-15	22,498 / 24,475 (91.9%)
16-17	11,792 / 12,946 (91.1%)
18-24	43,298 / 48,476 (89.3%)
25-39	113,953 / 124,238 (91.7%)
40-59	136,820 / 147,064 (93.0%)
60-79	117,091 / 123,007 (95.2%)
80+	23,678 / 25,053 (94.5%)
Sex	
Female	254,956 / 273,298 (93.3%)
Male	212,952 / 230,539 (92.4%)
Unknown	1,222 / 1,422 (85.9%)
Race/Ethnicity	
Black or AA	78,494 / 88,381 (88.8%)
White	253,164 / 266,424 (95.0%)
Hispanic	61,175 / 67,688 (90.4%)
Asian or NHOPI	24,322 / 26,073 (93.3%)
AIAN	2,535 / 2,790 (90.9%)
Other	32,176 / 34,763 (92.6%)
Unknown	17,264 / 19,140 (90.2%)

¹n / N (%)

Data Sources & Acknowledgments

This report was created by faculty and staff in the Medical College of Wisconsin (MCW) Institute for Health and Equity (IHE) in partnership with representatives from local health departments and faculty from the University of Wisconsin-Milwaukee Zilber School of Public Health. Data sources include the Wisconsin Immunization Registry (WIR) and the US Census Bureau.

Contact Information

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